

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 5H ST01
Field	Wetzel	API	47103036450100
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 5H ST01 AWB
Slot	5H	Sidetrack from	Riter WTZ 5H awp Proj: 14025' at 13227.00 MD

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999617	Report Generated	9/10/2024 at 11:33:58 AM
Convergence at slot	0.28° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-16.74	22.61	1761507.75	14418819.95	39°42'10.2342"N	80°34'10.0981"W
Facility Reference Pt			1761485.15	14418836.68	39°42'10.4007"N	80°34'10.3863"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.4780"W

WELLPATH DATUM

Calculation method	Minimum curvature	SDC 501 (KB) to Facility Vertical Datum	1437.17ft
Horizontal Reference Pt	Slot	SDC 501 (KB) to Mean Sea Level	1437.17ft
Vertical Reference Pt	SDC 501 (KB)	SDC 501 (KB) to Ground Level at Slot (5H)	26.00ft
MD Reference Pt	SDC 501 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	312.95°

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Actual Wellpath Report

Riter Wtz 5H ST01 awp Proj: 13436'

Page 2 of 6

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WELLPATH DATA (150 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
0.00†	0.000	79.050	0.00	0.00	0.00	0.00	1761507.75	14418819.95	39°42'10.2342"N	80°34'10.0981"W	0.00	0.000	0.00
26.00	0.000	79.050	26.00	0.00	0.00	0.00	1761507.75	14418819.95	39°42'10.2342"N	80°34'10.0981"W	0.00	0.000	0.00
172.00	0.050	79.050	172.00	-0.04	0.01	0.06	1761507.81	14418819.96	39°42'10.2343"N	80°34'10.0973"W	0.06	79.050	0.03
232.00	0.190	64.910	232.00	-0.09	0.06	0.18	1761507.93	14418820.01	39°42'10.2348"N	80°34'10.0958"W	0.19	71.620	0.24
324.00	0.120	71.240	324.00	-0.19	0.15	0.41	1761508.16	14418820.10	39°42'10.2357"N	80°34'10.0928"W	0.44	69.194	0.08
416.00	0.180	119.500	416.00	-0.38	0.11	0.62	1761508.37	14418820.06	39°42'10.2353"N	80°34'10.0901"W	0.64	79.592	0.15
430.00	0.180	116.530	430.00	-0.42	0.09	0.66	1761508.41	14418820.04	39°42'10.2351"N	80°34'10.0896"W	0.67	81.929	0.07
508.00	0.210	118.360	508.00	-0.68	-0.03	0.90	1761508.65	14418819.92	39°42'10.2339"N	80°34'10.0866"W	0.90	91.818	0.04
599.00	1.450	108.350	598.99	-1.89	-0.47	2.14	1761509.89	14418819.48	39°42'10.2295"N	80°34'10.0707"W	2.19	102.401	1.37
689.00	3.980	103.460	688.88	-5.64	-1.56	6.26	1761514.01	14418818.39	39°42'10.2185"N	80°34'10.0181"W	6.45	103.963	2.82
779.00	6.740	102.840	778.48	-12.93	-3.46	14.45	1761522.19	14418816.49	39°42'10.1994"N	80°34'9.9134"W	14.85	103.458	3.07
870.00	9.970	98.070	868.50	-24.01	-5.75	27.46	1761535.20	14418814.20	39°42'10.1761"N	80°34'9.7471"W	28.05	101.829	3.63
963.00	12.860	94.540	959.65	-38.73	-7.70	45.75	1761553.48	14418812.25	39°42'10.1559"N	80°34'9.5132"W	46.39	99.554	3.20
1053.00	15.760	90.710	1046.85	-55.63	-8.64	67.96	1761575.68	14418811.31	39°42'10.1455"N	80°34'9.2291"W	68.51	97.249	3.39
1143.00	17.670	90.010	1133.05	-74.68	-8.80	93.84	1761601.56	14418811.16	39°42'10.1428"N	80°34'8.8980"W	94.25	95.356	2.13
1234.00	19.400	93.700	1219.33	-96.50	-9.78	122.74	1761630.44	14418810.18	39°42'10.1318"N	80°34'8.5283"W	123.13	94.554	2.30
1324.00	21.290	92.390	1303.71	-120.49	-11.42	153.98	1761661.67	14418808.53	39°42'10.1140"N	80°34'8.1287"W	154.40	94.242	2.16
1415.00	23.930	91.270	1387.71	-146.83	-12.52	188.94	1761696.62	14418807.43	39°42'10.1015"N	80°34'7.6814"W	189.36	93.791	2.94
1505.00	27.080	91.520	1468.93	-175.83	-13.47	227.68	1761735.34	14418806.49	39°42'10.0903"N	80°34'7.1859"W	228.08	93.385	3.50
1592.00	29.520	92.230	1545.52	-206.92	-14.83	268.90	1761776.55	14418805.13	39°42'10.0749"N	80°34'6.6586"W	268.31	93.156	2.83
1683.00	31.800	93.280	1623.80	-242.38	-17.07	315.25	1761822.88	14418802.88	39°42'10.0505"N	80°34'6.0658"W	315.71	93.100	2.57
1774.00	34.480	94.370	1699.99	-280.98	-20.41	364.88	1761872.49	14418799.55	39°42'10.0152"N	80°34'5.4310"W	365.45	93.201	3.02
1868.00	38.060	94.920	1775.76	-324.61	-24.92	420.29	1761927.88	14418795.04	39°42'9.9679"N	80°34'4.7223"W	421.03	93.393	3.82
1958.00	39.270	95.430	1846.03	-369.06	-30.00	476.29	1761983.86	14418789.96	39°42'9.9151"N	80°34'4.0061"W	477.24	93.604	1.39
2049.00	38.300	96.000	1916.97	-414.44	-35.67	533.01	1762040.55	14418784.29	39°42'9.8564"N	80°34'3.2808"W	534.20	93.829	1.14
2140.00	35.070	93.150	1989.94	-457.08	-40.06	587.18	1762094.70	14418779.91	39°42'9.8104"N	80°34'2.5881"W	588.54	93.903	4.01
2230.00	34.410	93.320	2063.90	-496.53	-42.95	638.38	1762145.89	14418777.02	39°42'9.7794"N	80°34'1.9331"W	639.83	93.849	0.74
2321.00	34.530	94.630	2138.92	-536.57	-46.52	689.76	1762197.24	14418773.45	39°42'9.7416"N	80°34'1.2760"W	691.33	93.858	0.83
2412.00	33.770	95.430	2214.23	-576.86	-51.00	740.65	1762248.11	14418768.97	39°42'9.6950"N	80°34'0.6252"W	742.40	93.939	0.97
2502.00	33.260	95.100	2289.26	-616.19	-55.56	790.13	1762297.57	14418764.42	39°42'9.6476"N	80°33'59.9924"W	792.08	94.022	0.60

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Page 3 of 6

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WELLPATH DATA (150 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
2593.00	33.080	94.010	2365.44	-655.21	-59.51	839.76	1762347.18	14418760.46	39°42'9.6061"N	80°33'59.3577"W	841.86	94.054	0.68
2683.00	32.820	94.870	2440.96	-693.51	-63.30	888.56	1762395.97	14418756.67	39°42'9.5663"N	80°33'58.7335"W	890.81	94.075	0.59
2774.00	33.850	96.790	2516.99	-733.39	-68.39	938.30	1762445.69	14418751.59	39°42'9.5136"N	80°33'58.0974"W	940.79	94.169	1.62
2864.00	33.320	96.540	2591.97	-773.52	-74.17	987.75	1762495.12	14418745.81	39°42'9.4542"N	80°33'57.4652"W	990.53	94.294	0.61
2955.00	31.680	95.010	2668.71	-812.48	-79.10	1036.39	1762543.74	14418740.88	39°42'9.4031"N	80°33'56.8432"W	1039.41	94.365	2.02
3035.00	31.880	94.790	2736.72	-845.66	-82.70	1078.37	1762585.70	14418737.28	39°42'9.3655"N	80°33'56.3063"W	1081.54	94.385	0.29
3150.00	31.520	91.250	2834.57	-891.99	-85.89	1138.69	1762646.00	14418734.09	39°42'9.3311"N	80°33'55.5347"W	1141.93	94.314	1.65
3241.00	32.900	91.950	2911.56	-928.40	-87.25	1187.18	1762694.47	14418732.73	39°42'9.3153"N	80°33'54.9145"W	1190.38	94.203	1.57
3331.00	34.200	89.750	2986.57	-965.29	-87.97	1236.90	1762744.18	14418732.01	39°42'9.3058"N	80°33'54.2783"W	1240.03	94.068	1.98
3421.00	34.330	91.670	3060.95	-1002.80	-88.60	1287.56	1762794.82	14418731.38	39°42'9.2972"N	80°33'53.6302"W	1290.61	93.937	1.21
3512.00	34.820	93.530	3135.88	-1042.16	-90.95	1339.15	1762846.38	14418729.03	39°42'9.2715"N	80°33'52.9704"W	1342.23	93.885	1.28
3602.00	35.410	92.390	3209.50	-1081.82	-93.62	1390.85	1762898.06	14418726.36	39°42'9.2426"N	80°33'52.3091"W	1393.99	93.851	0.98
3693.00	35.120	93.190	3283.80	-1121.97	-96.18	1443.32	1762950.52	14418723.81	39°42'9.2148"N	80°33'51.6379"W	1446.52	93.812	0.60
3784.00	35.240	94.300	3358.18	-1162.59	-99.60	1495.64	1763002.81	14418720.39	39°42'9.1785"N	80°33'50.9688"W	1498.95	93.810	0.72
3874.00	35.330	95.890	3431.65	-1203.64	-104.22	1547.42	1763054.57	14418715.77	39°42'9.1304"N	80°33'50.3066"W	1550.92	93.853	1.03
3964.00	35.470	95.590	3505.01	-1245.16	-109.43	1599.29	1763106.42	14418710.56	39°42'9.0763"N	80°33'49.6432"W	1603.03	93.914	0.25
4057.00	34.640	95.510	3581.14	-1287.60	-114.60	1652.45	1763159.57	14418705.39	39°42'9.0227"N	80°33'48.9634"W	1656.42	93.967	0.89
4148.00	34.210	95.350	3656.20	-1328.40	-119.47	1703.67	1763210.76	14418700.53	39°42'8.9721"N	80°33'48.3084"W	1707.85	94.011	0.48
4239.00	33.760	95.420	3731.66	-1368.72	-124.24	1754.31	1763261.38	14418695.76	39°42'8.9225"N	80°33'47.6808"W	1758.70	94.051	0.50
4329.00	33.420	93.030	3806.64	-1407.56	-127.91	1803.96	1763311.01	14418692.08	39°42'8.8838"N	80°33'47.0258"W	1808.49	94.056	1.52
4420.00	34.290	92.850	3882.21	-1446.39	-130.51	1854.59	1763361.62	14418689.49	39°42'8.8557"N	80°33'46.3783"W	1859.17	94.025	0.96
4510.00	34.800	92.550	3956.34	-1485.34	-132.92	1905.56	1763412.58	14418687.08	39°42'8.8295"N	80°33'45.7262"W	1910.19	93.990	0.60
4601.00	34.980	96.350	4030.99	-1526.06	-136.96	1957.44	1763464.43	14418683.05	39°42'8.7871"N	80°33'45.0628"W	1962.22	94.002	2.40
4691.00	35.240	96.930	4104.61	-1567.77	-142.94	2008.85	1763515.83	14418677.06	39°42'8.7254"N	80°33'44.4053"W	2013.93	94.070	0.47
4782.00	35.400	94.270	4178.87	-1609.59	-148.07	2061.20	1763568.16	14418671.93	39°42'8.6722"N	80°33'43.7359"W	2066.51	94.109	1.70
4872.00	35.320	94.870	4252.27	-1650.41	-152.22	2113.12	1763620.06	14418667.78	39°42'8.6287"N	80°33'43.0719"W	2118.60	94.120	0.40
4965.00	34.730	94.980	4328.42	-1692.46	-156.81	2166.30	1763673.21	14418663.20	39°42'8.5809"N	80°33'42.3918"W	2171.97	94.140	0.64
5056.00	34.250	94.980	4403.43	-1733.08	-161.28	2217.63	1763724.53	14418658.73	39°42'8.5342"N	80°33'41.7353"W	2223.49	94.160	0.53
5147.00	33.840	94.490	4478.85	-1773.11	-165.49	2268.40	1763775.28	14418654.53	39°42'8.4901"N	80°33'41.0860"W	2274.43	94.172	0.54
5239.00	33.810	94.490	4555.25	-1813.34	-169.70	2319.44	1763826.30	14418650.32	39°42'8.4460"N	80°33'40.4333"W	2325.64	94.185	0.28

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Page 4 of 6

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5329.00	34.120	95.060	4629.90	-1852.99	-174.09	2369.53	1763876.37	14418645.93	39°42'8.4003"N	80°33'39.7927"W	2375.92	94.202	0.35
5420.00	33.760	94.960	4705.40	-1893.06	-178.52	2420.15	1763926.96	14418641.49	39°42'8.3540"N	80°33'39.1454"W	2426.72	94.219	0.40
5510.00	34.270	94.870	4780.00	-1932.72	-182.84	2470.31	1763977.11	14418637.18	39°42'8.3089"N	80°33'38.5039"W	2477.06	94.233	0.57
5600.00	34.440	95.340	4854.30	-1972.82	-187.36	2520.89	1764027.67	14418632.67	39°42'8.2618"N	80°33'37.8570"W	2527.85	94.250	0.35
5691.00	34.340	93.760	4929.39	-2013.10	-191.43	2572.13	1764078.89	14418628.59	39°42'8.2190"N	80°33'37.2018"W	2579.24	94.256	0.99
5782.00	34.290	94.950	5004.56	-2053.19	-195.33	2623.28	1764130.02	14418624.70	39°42'8.1780"N	80°33'36.5476"W	2630.54	94.258	0.74
5872.00	34.320	94.840	5078.90	-2093.14	-199.66	2673.82	1764180.54	14418620.37	39°42'8.1328"N	80°33'35.9013"W	2681.26	94.270	0.08
5962.00	34.590	93.050	5153.11	-2132.70	-203.16	2724.61	1764231.31	14418616.87	39°42'8.0957"N	80°33'35.2516"W	2732.17	94.264	1.16
6071.00	34.850	91.500	5242.71	-2179.78	-205.62	2786.64	1764293.32	14418614.41	39°42'8.0684"N	80°33'34.4582"W	2794.21	94.220	0.84
6163.00	34.820	89.840	5318.22	-2218.66	-206.23	2839.18	1764345.84	14418613.80	39°42'8.0598"N	80°33'33.7860"W	2846.66	94.155	1.03
6255.00	34.910	90.830	5393.71	-2257.36	-206.54	2891.77	1764398.41	14418613.49	39°42'8.0542"N	80°33'33.1132"W	2899.14	94.085	0.62
6346.00	34.830	90.800	5468.37	-2295.94	-207.28	2943.79	1764450.41	14418612.75	39°42'8.0443"N	80°33'32.4477"W	2951.08	94.028	0.09
6438.00	33.040	91.350	5544.70	-2334.18	-208.24	2995.14	1764501.74	14418611.79	39°42'8.0324"N	80°33'31.7908"W	3002.37	93.977	1.97
6530.00	33.500	91.440	5621.62	-2371.94	-209.47	3045.60	1764552.17	14418610.56	39°42'8.0178"N	80°33'31.1453"W	3052.79	93.934	0.50
6622.00	33.540	91.260	5698.32	-2409.93	-210.67	3096.39	1764602.94	14418609.37	39°42'8.0035"N	80°33'30.4956"W	3103.54	93.892	0.12
6714.00	33.630	91.020	5774.96	-2447.87	-211.68	3147.27	1764653.81	14418608.35	39°42'7.9910"N	80°33'29.8447"W	3154.38	93.848	0.17
6805.00	33.400	91.460	5850.83	-2485.38	-212.77	3197.50	1764704.02	14418607.27	39°42'7.9778"N	80°33'29.2020"W	3204.57	93.807	0.37
6897.00	33.730	91.220	5927.49	-2523.41	-213.95	3248.35	1764754.85	14418606.08	39°42'7.9636"N	80°33'28.5515"W	3255.39	93.768	0.39
6989.00	34.430	91.120	6003.69	-2561.85	-215.01	3299.89	1764806.37	14418605.03	39°42'7.9507"N	80°33'27.8922"W	3306.89	93.728	0.76
7080.00	34.440	92.840	6078.74	-2600.70	-216.78	3351.32	1764857.78	14418603.25	39°42'7.9306"N	80°33'27.2344"W	3358.32	93.701	1.07
7172.00	34.830	93.350	6154.44	-2640.84	-219.61	3403.53	1764909.97	14418600.43	39°42'7.9002"N	80°33'26.5666"W	3410.61	93.692	0.53
7264.00	34.900	93.490	6229.93	-2681.40	-222.75	3456.03	1764962.44	14418597.29	39°42'7.8666"N	80°33'25.8951"W	3463.20	93.688	0.12
7355.00	34.780	93.380	6304.62	-2721.51	-225.86	3507.92	1765014.32	14418594.18	39°42'7.8333"N	80°33'25.2314"W	3515.18	93.684	0.15
7447.00	34.720	93.260	6380.21	-2761.90	-228.90	3560.27	1765066.65	14418591.14	39°42'7.8007"N	80°33'24.5618"W	3567.62	93.679	0.10
7539.00	34.760	93.380	6455.81	-2802.27	-231.93	3612.61	1765118.97	14418588.11	39°42'7.7681"N	80°33'23.8923"W	3620.05	93.673	0.09
7631.00	34.760	93.280	6531.39	-2842.68	-234.98	3664.97	1765171.31	14418585.06	39°42'7.7355"N	80°33'23.2226"W	3672.50	93.669	0.06
7723.00	34.820	93.240	6606.95	-2883.07	-237.97	3717.38	1765223.70	14418582.08	39°42'7.7034"N	80°33'22.5523"W	3724.99	93.663	0.07
7814.00	34.860	93.350	6681.63	-2923.10	-240.95	3769.28	1765275.58	14418579.09	39°42'7.6713"N	80°33'21.8884"W	3776.98	93.658	0.08
7906.00	34.900	93.120	6757.11	-2963.57	-243.92	3821.81	1765328.09	14418576.12	39°42'7.6394"N	80°33'21.2166"W	3829.59	93.652	0.15
7998.00	30.860	84.750	6834.39	-2999.54	-243.20	3871.63	1765377.89	14418576.85	39°42'7.6442"N	80°33'20.5791"W	3879.26	93.594	6.60

Actual Wellpath Report

Riter WTZ 5H ST01 awp Proj: 13436'

Page 5 of 6

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 5H ST01
Field	Wetzel	API	47103036450100
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 5H ST01 AWB
Slot	5H	Sidetrack from	Riter WTZ 5H awp Proj: 14025' at 13227.00 MD

WELLPATH DATA (150 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
8090.00	26.070	73.580	6915.31	-3025.60	-235.31	3914.57	1765420.82	14418584.73	39°42'7.7200"N	80°33'20.0292"W	3921.64	93.440	7.76
8181.00	24.400	56.310	6997.73	-3040.15	-219.21	3949.44	1765455.67	14418600.82	39°42'7.8774"N	80°33'19.5820"W	3955.52	93.177	8.27
8273.00	24.440	30.790	7081.73	-3040.53	-192.24	3975.07	1765481.29	14418627.78	39°42'8.1426"N	80°33'19.2525"W	3979.72	92.769	11.39
8365.00	26.490	13.570	7164.91	-3026.44	-155.90	3989.65	1765495.86	14418664.11	39°42'8.5012"N	80°33'19.0636"W	3992.69	92.238	8.32
8456.00	30.900	0.560	7244.79	-3000.69	-112.74	3994.65	1765500.86	14418707.25	39°42'8.9274"N	80°33'18.9970"W	3996.24	91.617	8.38
8548.00	35.260	349.690	7321.93	-2963.43	-62.92	3990.12	1765496.33	14418757.05	39°42'9.4200"N	80°33'19.0517"W	3990.61	90.903	7.99
8639.00	42.630	345.690	7392.67	-2916.39	-7.13	3977.78	1765484.00	14418812.82	39°42'9.9719"N	80°33'19.2060"W	3977.79	90.103	8.55
8731.00	49.480	339.530	7456.50	-2858.82	55.92	3957.82	1765464.04	14418875.85	39°42'10.5960"N	80°33'19.4574"W	3958.21	89.191	8.86
8823.00	57.700	337.180	7511.07	-2791.97	124.64	3930.46	1765436.70	14418944.54	39°42'11.2765"N	80°33'19.8031"W	3932.44	88.184	9.17
8915.00	64.440	332.480	7555.57	-2717.28	197.40	3896.15	1765402.40	14419017.27	39°42'11.9972"N	80°33'20.2375"W	3901.15	87.100	8.58
9006.00	73.200	329.500	7588.42	-2636.67	271.49	3854.99	1765361.25	14419091.34	39°42'12.7315"N	80°33'20.7594"W	3864.54	85.972	10.10
9098.00	79.850	325.430	7609.85	-2550.12	346.83	3806.87	1765313.16	14419166.65	39°42'13.4784"N	80°33'21.3702"W	3822.64	84.794	8.41
9190.00	86.300	319.540	7620.95	-2460.13	419.18	3751.29	1765257.59	14419238.97	39°42'14.1962"N	80°33'22.0769"W	3774.63	83.624	9.46
9282.00	90.580	312.130	7623.46	-2368.37	485.09	3687.27	1765193.60	14419304.85	39°42'14.8506"N	80°33'22.8918"W	3719.04	82.505	9.30
9374.00	92.160	311.890	7621.26	-2276.41	546.64	3618.93	1765125.29	14419366.38	39°42'15.4623"N	80°33'23.7622"W	3659.98	81.410	1.74
9466.00	91.230	311.850	7618.54	-2184.47	608.02	3550.45	1765056.83	14419427.74	39°42'16.0722"N	80°33'24.6345"W	3602.14	80.282	1.01
9557.00	90.830	311.340	7616.90	-2093.51	668.42	3482.41	1764988.82	14419488.11	39°42'16.6724"N	80°33'25.5012"W	3545.98	79.135	0.71
9649.00	90.520	310.970	7615.82	-2001.56	728.96	3413.14	1764919.58	14419548.63	39°42'17.2741"N	80°33'26.3836"W	3490.12	77.944	0.52
9741.00	90.340	311.610	7615.13	-1909.60	789.67	3344.02	1764850.48	14419609.31	39°42'17.8774"N	80°33'27.2642"W	3435.99	76.713	0.72
9832.00	90.580	311.740	7614.40	-1818.63	850.17	3275.05	1764782.54	14419669.79	39°42'18.4787"N	80°33'28.1300"W	3384.57	75.452	0.30
9924.00	90.400	310.760	7613.61	-1726.67	910.83	3206.88	1764713.40	14419730.43	39°42'19.0815"N	80°33'29.0112"W	3333.72	74.144	1.08
10016.00	90.740	311.150	7612.69	-1634.73	971.13	3137.41	1764643.95	14419790.70	39°42'19.6808"N	80°33'29.8963"W	3284.27	72.801	0.56
10108.00	90.710	310.900	7611.53	-1542.79	1031.51	3068.01	1764574.57	14419851.06	39°42'20.2809"N	80°33'30.7804"W	3236.77	71.417	0.27
10200.00	90.680	311.340	7610.41	-1450.85	1092.01	2998.70	1764505.30	14419911.54	39°42'20.8822"N	80°33'31.6633"W	3191.35	69.990	0.48
10292.00	90.680	310.820	7609.32	-1358.90	1152.46	2929.36	1764435.98	14419971.97	39°42'21.4830"N	80°33'32.5468"W	3147.91	68.525	0.57
10383.00	90.620	311.580	7608.29	-1267.95	1212.40	2860.90	1764367.54	14420031.88	39°42'22.0786"N	80°33'33.4190"W	3107.19	67.034	0.84
10475.00	90.620	311.880	7607.29	-1175.98	1273.63	2792.24	1764298.92	14420093.09	39°42'22.6871"N	80°33'34.2936"W	3069.00	65.481	0.33
10567.00	90.920	311.860	7606.06	-1084.00	1335.03	2723.74	1764230.44	14420154.46	39°42'23.2972"N	80°33'35.1662"W	3033.32	63.888	0.33
10659.00	90.680	312.010	7604.77	-992.03	1396.50	2655.31	1764162.03	14420215.92	39°42'23.9081"N	80°33'36.0379"W	3000.15	62.259	0.31
10751.00	91.080	312.000	7603.46	-900.05	1458.06	2586.95	1764093.70	14420277.45	39°42'24.5198"N	80°33'36.9086"W	2969.56	60.593	0.43

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Oil and Gas
Department of
Natural Resources
August 8, 2025

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 5H ST01
Field	Wetzel	API	47103036450100
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 5H ST01 AWB
Slot	5H	Sidetrack from	Riter WTZ 5H awp Proj: 14025' at 13227.00 MD

WELLPATH DATA (150 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
10842.00	90.950	312.020	7601.75	-809.08	1518.96	2519.35	1764026.13	14420338.32	39°42'25.1248"N	80°33'37.7698"W	2941.82	58.914	0.14
10934.00	90.830	311.800	7600.32	-717.10	1580.40	2450.89	1763957.69	14420399.74	39°42'25.7354"N	80°33'38.6419"W	2916.25	57.185	0.27
11026.00	91.350	311.730	7598.57	-625.14	1641.67	2382.28	1763889.11	14420460.99	39°42'26.3442"N	80°33'39.5159"W	2893.15	55.429	0.57
11118.00	90.520	311.720	7597.07	-533.17	1702.89	2313.63	1763820.48	14420522.19	39°42'26.9526"N	80°33'40.3905"W	2872.75	53.646	0.90
11209.00	90.550	312.180	7596.22	-442.19	1763.72	2245.95	1763752.83	14420582.99	39°42'27.5570"N	80°33'41.2526"W	2855.70	51.858	0.51
11301.00	90.620	311.760	7595.28	-350.21	1825.24	2177.55	1763684.46	14420644.49	39°42'28.1683"N	80°33'42.1239"W	2841.34	50.030	0.46
11393.00	90.680	311.890	7594.24	-258.23	1886.59	2109.00	1763615.94	14420705.81	39°42'28.7779"N	80°33'42.9972"W	2829.68	48.186	0.16
11485.00	90.580	311.750	7593.22	-166.26	1947.93	2040.44	1763547.40	14420767.13	39°42'29.3874"N	80°33'43.8706"W	2820.96	46.329	0.19
11576.00	90.520	311.720	7592.35	-75.28	2008.50	1972.54	1763479.53	14420827.68	39°42'29.9893"N	80°33'44.7357"W	2815.14	44.482	0.07
11668.00	90.740	311.980	7591.34	16.70	2069.88	1904.01	1763411.03	14420889.03	39°42'30.5992"N	80°33'45.6086"W	2812.41	42.610	0.37
11760.00	90.520	312.650	7590.33	108.68	2131.81	1835.99	1763343.03	14420950.94	39°42'31.2145"N	80°33'46.4752"W	2813.44	40.736	0.77
11852.00	90.680	312.670	7589.36	200.68	2194.15	1768.33	1763275.40	14421013.26	39°42'31.8339"N	80°33'47.3369"W	2818.03	38.866	0.18
11944.00	90.550	312.490	7588.38	292.67	2256.40	1700.59	1763207.89	14421075.48	39°42'32.4523"N	80°33'48.1998"W	2825.48	37.004	0.24
12036.00	90.680	312.590	7587.40	383.66	2317.92	1633.55	1763140.67	14421136.98	39°42'33.0635"N	80°33'49.0538"W	2835.71	35.174	0.18
12127.00	90.860	312.910	7586.16	475.65	2380.36	1566.00	1763073.14	14421199.40	39°42'33.6839"N	80°33'49.9143"W	2849.29	33.340	0.40
12219.00	90.650	312.850	7584.95	567.65	2442.96	1498.59	1763005.76	14421261.97	39°42'34.3057"N	80°33'50.7729"W	2865.98	31.526	0.24
12311.00	90.310	312.440	7584.18	659.64	2505.28	1430.92	1762938.12	14421324.27	39°42'34.9249"N	80°33'51.6349"W	2885.13	29.733	0.58
12402.00	90.030	312.240	7583.91	750.64	2566.57	1363.66	1762870.88	14421385.54	39°42'35.5338"N	80°33'52.4918"W	2906.35	27.982	0.38
12494.00	90.280	312.480	7583.66	842.63	2628.56	1295.67	1762802.93	14421447.50	39°42'36.1497"N	80°33'53.3578"W	2930.55	26.240	0.38
12586.00	90.180	312.210	7583.29	934.62	2690.53	1227.68	1762734.95	14421509.45	39°42'36.7654"N	80°33'54.2240"W	2957.39	24.527	0.31
12677.00	90.180	312.520	7583.01	1025.62	2751.85	1160.44	1762667.74	14421570.74	39°42'37.3746"N	80°33'55.0805"W	2986.52	22.865	0.34
12769.00	90.680	313.150	7582.32	1117.62	2814.40	1092.98	1762600.31	14421633.27	39°42'37.9960"N	80°33'55.9398"W	3019.18	21.224	0.87
12860.00	90.710	312.530	7581.21	1208.61	2876.27	1026.26	1762533.61	14421695.11	39°42'38.6107"N	80°33'56.7897"W	3053.87	19.636	0.68
12952.00	90.830	312.230	7579.98	1300.60	2938.28	958.30	1762465.69	14421757.10	39°42'39.2267"N	80°33'57.6554"W	3090.60	18.063	0.35
13044.00	90.550	312.090	7578.87	1392.58	3000.02	890.11	1762397.52	14421818.82	39°42'39.8402"N	80°33'58.5241"W	3129.29	16.526	0.34
13136.00	89.540	311.560	7578.80	1484.56	3061.37	821.56	1762328.99	14421880.14	39°42'40.4498"N	80°33'59.3976"W	3169.69	15.022	1.24
13227.00	90.220	311.600	7578.99	1575.53	3121.77	753.49	1762260.95	14421940.51	39°42'41.0498"N	80°34'0.2649"W	3211.41	13.570	0.75
13319.00	92.800	315.000	7576.56	1667.48	3184.82	686.57	1762194.05	14422003.55	39°42'41.6762"N	80°34'1.1172"W	3257.99	12.165	4.64
13411.00	91.790	312.940	7572.88	1759.38	3248.64	620.41	1762127.92	14422067.34	39°42'42.3101"N	80°34'1.9598"W	3307.35	10.812	2.49
13436.00	91.790	312.940	7572.10	1784.37	3265.66	602.12	1762109.64	14422084.36	39°42'42.4792"N	80°34'2.1928"W	3320.71	10.447	0.00

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Riter WTZ 5H ST01 BHL rev 1	7220.00	14228.89	-11155.04	1750357.01	14433043.36	39°44'31.3593"N	80°36'32.0242"W	point

WELLPATH COMPOSITION - Ref Wellbore: Riter WTZ 5H ST01 AWB Ref Wellpath: Riter WTZ 5H ST01 awp Proj: 13436'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	430.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	1 Total MWD 17.5" IFR-MSA 172' - 430'	Riter WTZ 5H AWB	8/25/2024
430.00	3035.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	2 Total MWD 12.25" IFR-MSA 508' - 3035'	Riter WTZ 5H AWB	8/25/2024
3035.00	5962.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	3 BH MWD 8.75" IFR-MSA 3150' - 5962'	Riter WTZ 5H AWB	8/25/2024
5962.00	13227.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	4 BH MWD 8.5" IFR-MSA 6071' - 13961'	Riter WTZ 5H AWB	8/25/2024
13227.00	13436.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	1 BH MWD 8.5" IFR-MSA 13319' - 13411'	Riter WTZ 5H ST01 AWB	8/31/2024

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